INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/22262

| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : D02G 03/02 | | | | |
|--|--|------------------------------|---|--|
| US CL : 57/210-235 | | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | | |
| B. FIELDS SEARCHED | | | | |
| Minimum documentation searched (classification system followed by classification symbols) | | | | |
| U.S. : 57/210-235 | | | | |
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| Degrammatical accepted other than minimum degrammatation to the autent that much degrammate are included in the fields accepted | | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | | |
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| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) | | | | |
| BAST: Derwent, BPO, JPO, IBM, PGPub | | | | |
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| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | | | |
| х — | US 5,735,110 A (Kruger et al) 07 April 1998 (07.04.1998), Column 3 lines 44-46, 55-62; Column 4 lines 1-2, 36-41 | | 5-62; 1-27, 29, 40-41, 45-48 | |
| Y | | | 28, 30-39, 42-44 | |
| Y | US 4,614,081 A (Kim) 30 September 1986 (30.09.1986), Figure 1 | | 28, 30-39, 42-44 | |
| A | US 4,914,902 A (Keefe, Jr.) 10 April 1990 (10.04.1990), entire document | | 1-48 | |
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| A | A US 5,768,875 A (Bergen) 23 June 1998 (23.06.1998), entire document | | 1-48 | |
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| Further | documents are listed in the continuation of Box C. | See patent family and | nex. | |
| | pecial categories of cited documents: | | after the international filing date or priority date | |
| "A" document defining the general state of the art which is not considered to be of | | | application but cited to understand the | |
| particular | | | | |
| "B" earlier app | plication or patent published on or after the international filing date | considered novel or cannot | evance; the claimed invention cannot be t be considered to involve an inventive step | |
| | which may throw doubts on priority claim(s) or which is cited to | when the document is take | | |
| | the publication date of another citation or other special reason (as | | evence; the claimed invention cannot be eventive step when the document is combined | |
| - , | | with one or more other suc | h documents, such combination being obvious | |
| "O" document referring to an oral disclosure, use, exhibition or other means | | to a person skilled in the a | π | |
| "P" document published prior to the international filing date but later than the "&" document member of the same patent firmily priority date claimed | | | same patent family | |
| Date of the actual completion of the international search | | - | Date of mailing of the international search report | |
| 26 August 2005 (26.08.2005) | | 11 OCT 200 | | |
| | ailing address of the ISA/US | Authorized officer | 28.11 | |
| Mail Stop PCT, Attn: ISA/US | | John J Calvert | Cheila H. Vonos | |
| Commissioner of Patents P.O. Box 1450 | | | Paralegal Specialist | |
| Alex | xendria, Virginia 22313-1450 | Telephone No. (703) 308-114 | 18 Tech. Center 3700 | |
| racsimile No | o. (703) 305-3230 | L | | |

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